

METHODS OF MAKING A MULTIPLE-PORT OPTICAL PACKAGE

ABSTRACT OF THE DISCLOSURE

Methods of making a multiple-port optical device include precisely positioning pairs of optical fibers inside of a fiber ferrule using a positioning means, such as shaped capillaries or an external clamp, to hold the position of the fibers while adhesive is applied to the fibers and cured. The external precision positioning means comprise silicon wafers which are etched to form capillaries or guides for the fibers. Adhesive is applied to the fibers and wicked into the fiber ferrule capillary to completely fill the capillary. The external positioning means is removed after curing and the fiber ferrule is polished for use in optical devices such as multiple-port DWDM filter packages.

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